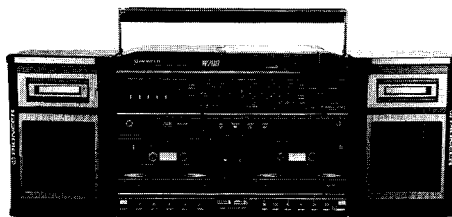


Operating Instructions

PORTABLE COMPONENT SYSTEM CK-W700



Thank you for buying this Pioneer product.

Please read through these operating instructions and then you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

In accordance with the power and voltage requirements of differing areas, the following model names are used to designate models with differing electrical specifications.

Models	Line voltage
HE, HB, HP, HEZ, NE, NEZ	a.c. 220, 240 volts ~ (Switchable voltage)
WE, WB, WP	a.c. 220—240 volts ~
S, S/G, SS	AC 110, 120, 220, 240 volts (Switchable voltage)
D, D/G	AC 120, 220, 240 volts (Switchable voltage)
R, R/G	AC 110—120, 220—240 volts (Switchable voltage)
KU, KC	AC 120 volts
YP, YB	a.c. 240 volts ~

NOTE:

- The model names are stamped on the packing case.
- These operating instructions are prepared on the basis of the D model, and they can be used for other models. Although the design of the power plug and the power outlet shown may differ from the actual one, the operating procedures are the same.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT NOTICE

[For U.S.A. and Canadian models]

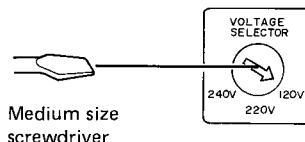
The serial number for this unit is located on the rear panel. Please write this serial number on your enclosed warranty card and keep in a secure area. This is for your security.

LINE VOLTAGE SELECTOR SWITCH

Only multi-voltage models are provided with this switch. U.S., Canadian, U.K., Australian and European models are not.

You will find the line voltage selector switch on the rear panel. Before your model is shipped from the factory, the switch is set to the power supply of the destination; nevertheless, you should check that it is set properly before plugging the power cord into an AC outlet. If the voltage is not properly set, or if you move to an area where the voltage supply differs, adjust the selector switch as follows. Before adjusting, disconnect the power cord.

1. Provide yourself with a medium size screwdriver.
2. Insert the screwdriver into the arrow and turn until it points to the voltage value of your area.



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 **PIONEER®**

SAFETY INSTRUCTIONS

READ INSTRUCTIONS — All the safety and operating instructions should be read before the appliance is operated.

RETAIN INSTRUCTIONS — The operating instructions should be retained for future reference.

HEED WARNING — All warnings on the appliance and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS — All operating and use instructions should be followed.

WATER AND MOISTURE — The appliance should not be used near water — for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

LOCATION — The appliance should be installed in a stable location.

WALL OR CEILING MOUNTING — The appliance should not be mounted to a wall or ceiling.

VENTILATION — The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

HEAT — The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

POWER SOURCES — The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

POWER-CORD PROTECTION — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

POLARIZATION — If your purchased product is provided with a polarized power plug, please read the following instructions. This product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

CLEANING — The appliance should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzene, insecticides or other volatile liquids since they may corrode the cabinet.

POWER LINES — An outdoor antenna should be located away from power lines.

NONUSE PERIODS — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

OBJECT AND LIQUID ENTRY — Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

DAMAGE REQUIRING SERVICE — The appliance should be serviced by Pioneer authorized service center or qualified service personnel when:

- The power-supply cord or the plug has been damaged; or
- Objects have fallen, or liquid has been spilled into the appliance; or
- The appliance has been exposed to rain; or
- The appliance does not appear to operate normally or exhibits a marked change in performance; or
- The appliance has been dropped; or the enclosure damaged.

SERVICING — The user should not attempt to service the appliance beyond that described in the operating instructions. For all other servicing, contact the nearest Pioneer authorized service center.

OUTDOOR ANTENNA GROUNDING — If an outside antenna is connected to the antenna terminal, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.

In the U.S.A. section 810 of the National Electrical Code, ANSI/NEPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Fig. A.

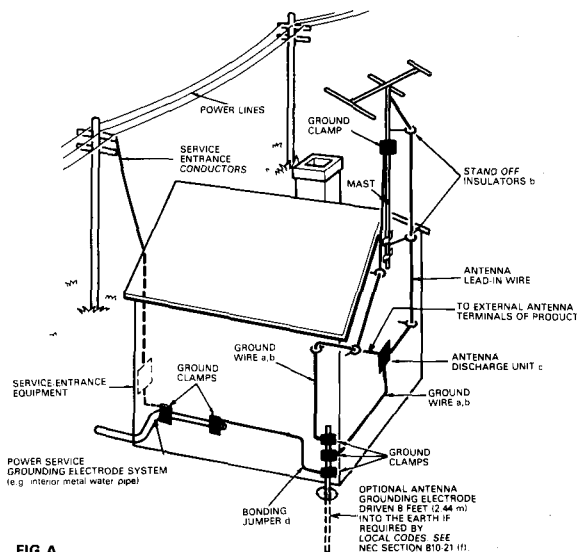


FIG. A

- Use No. 10 AWG (5.3 mm²) copper, No. 8 AWG (8.4 mm²) aluminum, No. 17 AWG (1.0 mm²) copper-clad steel, bronze wire, or larger as ground wire.
- Secure antenna lead-in and ground wires to house with stand-off insulators spaced from 4 feet (1.22 meters) to 6 feet (1.83 meters) apart.
- Mount antenna discharge unit as closely as possible to where lead-in enters house.
- Use jumper wire not smaller than No. 6 AWG (13.3 mm²) copper or equivalent when separate antenna-grounding electrode is used.

IMPORTANT 1



The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT 2

If the apparatus is fitted with AC mains power outlet(s), see REAR PANEL FACILITIES for convenient connection of additional Hi-Fi component(s). Make all connections to the AC outlet(s) and the signal terminals first. Connect the plug to the wall socket last, make sure that the power switch is off. Disconnect the wall plug when the equipment is not in (regular) use, e.g. when on vacation.

FOR USE IN THE UNITED KINGDOM

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured marking identifying the terminals in your plug proceed as follows:

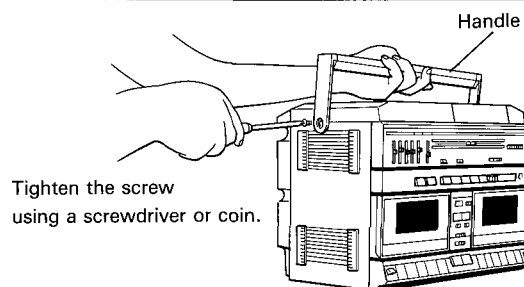
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Equipment sold in the U.K. is not supplied with a power plug.

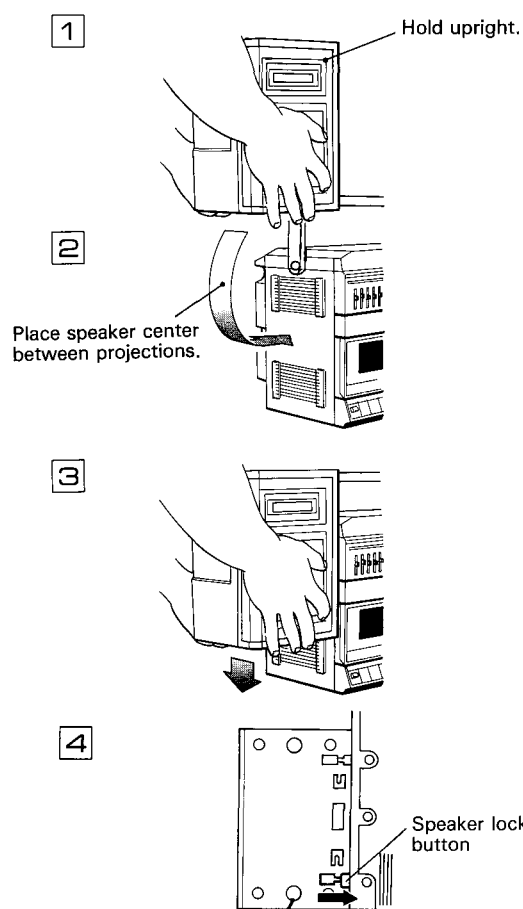
ATTACHING THE HANDLES

1. Take out the accessory handles and screws from the packing box.
2. Provide yourself with a straight-bladed screwdriver or a coin.
3. Align the handles with the holes on the left and right sides, and screw in the screws.
 - Tighten so that the handles are not anchored too tightly.



ASSEMBLY AND CONNECTIONS

Connect the power cord to a household AC outlet only after all the equipment has been connected. Keep the power switch in the OFF position.



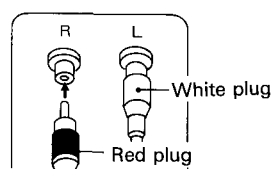
Mounting the speakers

1. Determine which is the top of each speaker and which is the bottom.
2. From the center position of the main unit, align the speaker side projections with the main unit.
3. Push the speakers so that they slide down into place.
4. Without inverting the assembly, push the speaker lock buttons on the rear side towards the main unit to lock each speaker in place.

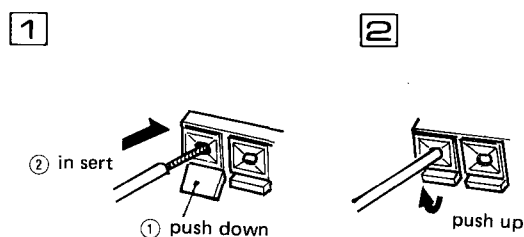
Connecting the input cords

When another stereo component (purchased separately) is connected, note the following instructions:

- Connect the plugs properly. Faulty connections can cause noise, breakdowns and failures.
- The white terminal is for the left channel and the red terminal is for the right channel.



Connecting the speaker cords



- Speaker terminals and speaker cords are colour coded. Insert speaker cords into terminals with the same colour.
- Check that the speaker cords will not become disconnected.

Caution: This unit is equipped with a powerful BTL (Balanced Transformer Less) power amplifier for high output. Therefore be very careful not to connect the input pin jacks to the speaker terminals when making connections, or the amplifier may be damaged.

POWER SUPPLY

This unit can be powered by the household power supply, dry batteries or by a car battery. Make absolutely sure that the power switch is in the OFF position when inserting or removing the batteries, and when connecting or disconnecting the power cord.

Using the household power

As shown in the figure below, connect one end of the supply accessory power cord to the AC INPUT socket first and then connect the other end with plug to a household AC power outlet.

When the power cord is connected to an AC INPUT socket, the power will be switched automatically to household power even if there are dry batteries inside the unit.

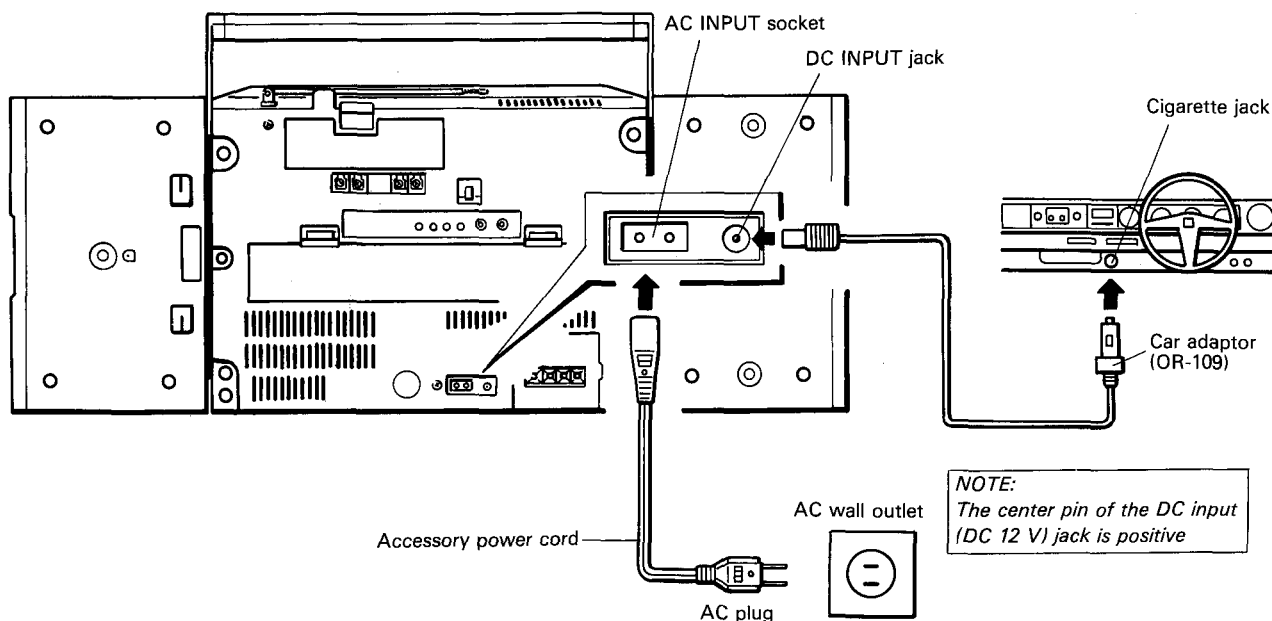
NOTE:

Always use the power cord supplied with the unit. The power supply may not be switched to AC unless the regular power cord is used. From time to time inspect the power cord and replace it if worn or damaged. (Ask for a replacement at your nearest authorized Pioneer Service Center.)

Using a car battery

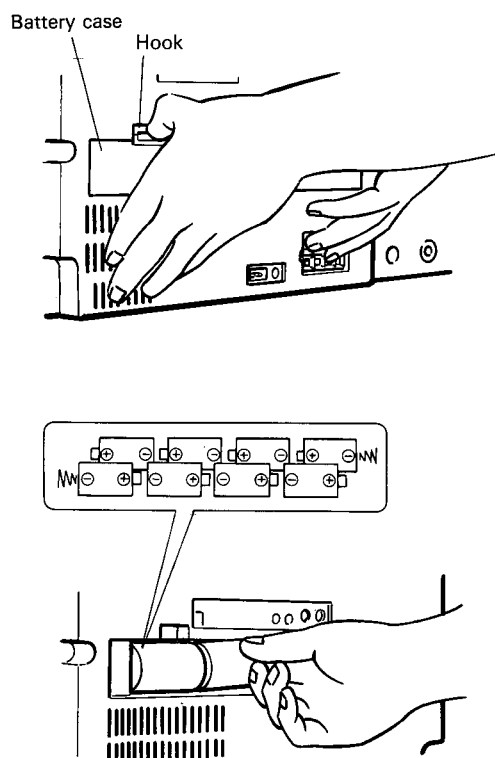
Connect the plug on the OR-109 optional Pioneer car adaptor to the DC INPUT jack on the side at the unit, and connect the other plug to the cigarette jack in the automobile. Even if the batteries are still inside the unit, the power will be switched automatically to DC INPUT.

- Under no circumstance should any car adaptor be used except that specified. This is to safeguard against accidents and breakdowns caused by differences in polarity. Read through the operating instructions which accompany the car adaptor.
- Buses and trucks have a 24V power supply which cannot be used for this unit.
- When switching from a car battery to dry batteries, always disconnect the car adaptor from the DC INPUT socket. The power will not be turned on merely by disconnecting the connection at the cigarette jack side.
- When powering the unit from the car battery for a prolonged period of time, always keep the engine running.



Using dry batteries

When using dry batteries to power the unit, it is recommended that alkaline batteries be used.



Inserting dry batteries

1. The compartment for dry batteries is located on the rear panel.
2. As shown in the figure, press the hook and open the battery case.
3. Insert eight size "D" batteries, four on each of the two levels, into the compartment. Make sure that their polarities are aligned properly with the markings.
4. Align the battery case with the cut-out in the main unit and slide it into position.

Precautions when using dry batteries

- Remember to take all the batteries out when you do not intend to use the unit for a prolonged period of time, or when household power is always used for the unit. This will safeguard against breakdowns resulting from electrolyte leakage from the dry batteries.
- Disconnect any cords from the AC INPUT socket and DC INPUT jack when powering the unit with dry batteries. If the cords are left connected, the unit will not operate on dry batteries.
- If the tape speed starts to become irregular or the volume leaves something to be desired during use with dry batteries, it indicates that the batteries are wearing out. Replace them with fresh batteries as soon as possible.

Handling precautions for dry batteries

Misuse of dry batteries can result in electrolyte leakage or on explosion. Bear in mind the following points to derive the maximum use from your batteries.

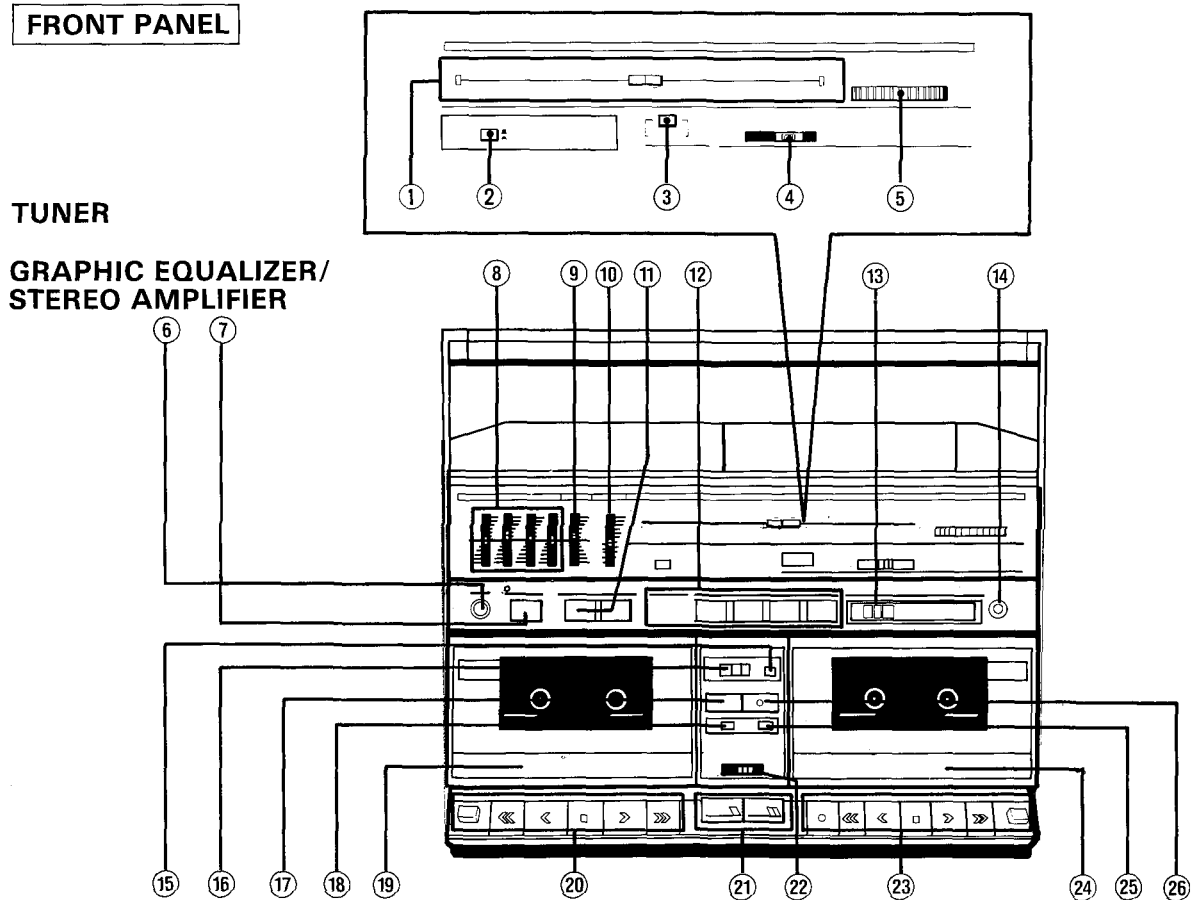
- Insert the batteries so that their (+) and (-) polarities correspond with the markings on the main unit.
- Since dry batteries may supply different voltages, although they may have the same shape, different types of batteries should not be mixed together. Always use the same kind of batteries.
- Do not mix fresh batteries with used batteries but change all the batteries at once.
- Do not heat up, disassemble or short-circuit batteries, or throw used batteries into a fire.
- Some batteries can be recharged while others cannot. Read the cautionary notes on the batteries and use them properly.

PARTS AND THEIR FUNCTIONS

FRONT PANEL

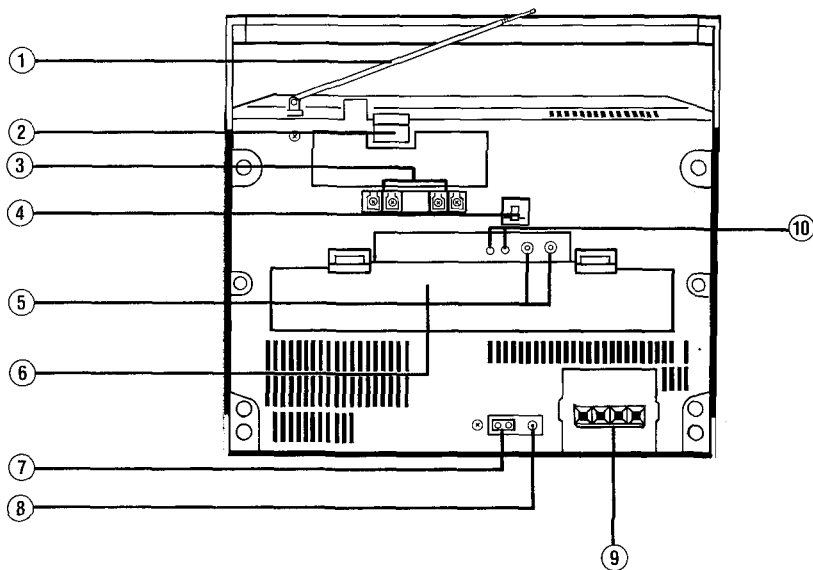
TUNER

GRAPHIC EQUALIZER/ STEREO AMPLIFIER

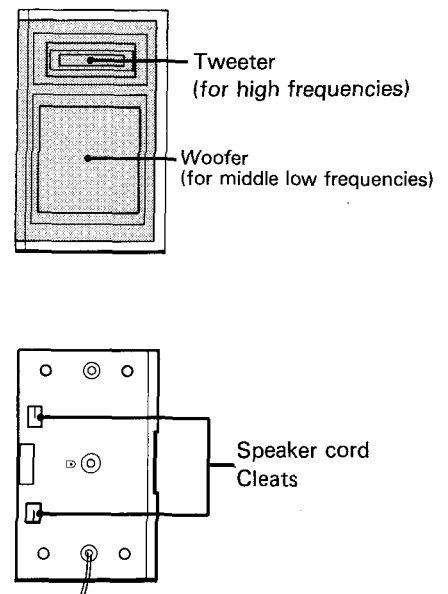


DOUBLE CASSETTE DECK

REAR PANEL



SPEAKER



[FRONT PANEL FACILITIES]**STEREO TUNER****① Frequency display****② FM mode/AM beat cut switch**

If high-pitched beat noise is noticeable, press this switch to improve the sound quality.

For FM reception:

(1 ) **STEREO:** The stereo mode is activated automatically when an FM stereo broadcast is received.

(2 ) **MONO:** The switch is set to this position when an FM stereo broadcast is received and the sound is drowned out by noise. Stereo broadcasts are heard in mono at this position.

For recording AM reception:

Press this switch if beat noise is noticeable during recording.

③ FM stereo indicator

This lights up when the FM broadcast received is in stereo.

④ Band selector switch

Set this switch to the position corresponding to the type of broadcast to be heard.

FM: For listening to FM broadcasts.

MW: For listening to MW broadcasts.

SW₁: For listening to SW₁ broadcasts.

SW₂: For listening to SW₂ broadcasts.

⑤ Tuning knob

Turn this knob to select stations.

GRAPHIC EQUALIZER/STEREO AMPLIFIER**⑥ Microphone jack (MIC)**

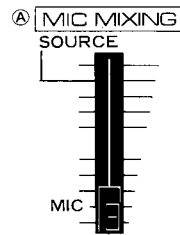
This is a standard plug type of jack.

⑦ Power switch**⑧ Graphic equalizer controls**

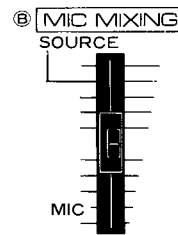
When these four controls are operated, an equalization effect can be added to tape playback sound from a microphone or program source, tape recording, etc.

⑨ Balance control**⑩ Mic mixing control**

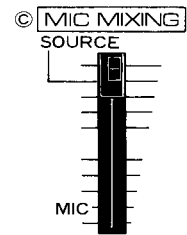
This is used to adjust the proportions of the microphone volume and the volume of another sound source.



The microphone will have priority over the background music.



The volume of the microphone sound and of the broadcast or tape are virtually equal.



The broadcast or tape music will have priority over the microphone.

NOTE:

- When the microphone is not being used, set the MIC MIXING control to the SOURCE position.
- When the control is in the "MIC" position, the attenuation of the source sound is approximately 1/100.

⑪ Sound effect switches

These sound effects can be added both to playback and to recording. However, sound effects cannot be added when the copy switches are used to perform tape copying.

[EXPANDER]

This switch gives the music source more "punch" so that the playback sound makes you feel as if you are actually at the source of the sound. This position is especially suited to rock, jazz, fusion and similar kinds of music.

[STEREO WIDE]

This function enhances the stereo effect. This sound effect is not produced, however, with a monaural sound source.

NOTE:

When the expander sound effect is used together with the graphic equalizer, recorded sounds may be distorted. Adjust while listening to the sound from your speakers.

⑫ Function selector switches

CD (): Press when playing the separately purchased compact disc player PD-C7.

NOTE:

If this switch is not pressed, the PD-C7 will not operate.

TUNER (): Press this when listening to broadcasts.

VIDEO/AUX (): Press this when listening to the sound from a unit connected to the VIDEO/AUX terminals.

TAPE (): Press this when listening to tape playback.

⑬ Volume control**⑭ Headphones jack**

This is a mini-plug type of jack.

DOUBLE CASSETTE DECK

This unit is equipped with an automatic tape selector function. When playing a tape, normal tapes (Type I), CrO₂ tapes (Types II and III), or metal tapes (Type IV) can be used. When tape recording, avoid using CrO₂ tapes, since the tape selector function cannot be adjusted to the equalization characteristics of such tapes.

(15) Counter reset switch**(16) Tape counter**

This 3-digit counter indicates the travel of the tape loaded in deck I.

(17) Pause switch

Use this to temporarily stop the tape travel on deck II.

(18) Relay play switch

Press this switch for continuous (relay) playback. (from deck I to deck II)

(19) Cassette holder (Deck I)**(20) Playback-only function switches (Deck I)**

EJECT: This opens the cassette door.

(⏮) FAST: This rewinds the tape; it fast-forwards the tape in the reverse mode.

(⏪) PLAY: This plays back the tape in the reverse mode.

(■) STOP: This stops the tape travel.

(⏩) PLAY: This plays back the tape in the forward mode.

(⏭) FAST: This fast-forwards the tape; it rewinds the tape in the reverse mode.

(21) Copying switches

NORMAL: Use this to copy a tape while listening to it (normal speed copying).

HIGH SPEED: Use this to copy tapes in reduced copying time (double the speed for normal speed copying, which halves the copying time).

(22) Reverse mode switch

Switch position	During playback	During recording
↔	Single-sided playback	Single-sided recording
↺↻	Double-sided playback	Double-sided recording
↻	Repeat playback	Double-sided recording

(23) Recording/playback function switches (Deck II)

(●) REC: This records.

(⏮) FAST: This rewinds the tape; it fast-forwards the tape in the reverse mode.

(⏪) PLAY: This plays back the tape in the reverse mode. It also cancels the pause function.

(■) STOP: This stops the tape travel.

(⏩) PLAY: This plays back the tape in the forward mode. It also cancels the pause function.

(⏭) FAST: This fast-forwards the tape; it rewinds the tape in the reverse mode.

EJECT: This opens the cassette door.

(24) Cassette holder (Deck II)**(25) Dolby NR* switch**

This switch reduces tape hiss. Press it for recording or playing back programs using the Dolby B noise reduction system.

- If a program has been recorded using the Dolby B system, make sure that it is played back with the same system. Faithful sound reproduction cannot be guaranteed when a tape recorded with the Dolby B system is played back with this switch in the OFF position, or when a tape recorded with the switch in the OFF position or recorded with another system (such as the Dolby C system) is played back with the Dolby B system.
- It is recommended that you write on the tape's label that the tape has been recorded with the Dolby B noise reduction system. This will prevent you from playing back the tape in a different switch position.

*

~~~~~  
Noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.  
"Dolby" and the double-D symbol are trademarks of the Dolby Laboratories Licensing Corporation.  
~~~~~

(26) Recording mute switch

Use this to create appropriate non-recorded intervals between tape programs.

[REAR PANEL FACILITIES]**(1) Rod antenna****(2) CD stopper button**

This button is used to locate the compact disc player inside the main unit.

(3) External antenna input terminals

These are for connecting an external FM or AM antenna.

(4) Beat cut switch

Press this switch when noise during recording cannot be removed by the AM BEAT CUT switch on the front panel.

(5) VIDEO/AUX input jacks

These are used for connection with the audio output terminals on a LaserVision player or on a hi-fi VTR.

(6) Battery compartment

⑦ **Household power socket**

This is used to connect the accessory household power cord.

⑧ **DC input jack**

This is used when the unit is powered by a car battery using the optional OR-109 car adaptor. For details, refer to the operating instructions of the OR-109.

⑨ **Speaker terminals**

⑩ **VIDEO/AUX level controls**

Normally leave them as they are. When recording from a component connected to the VIDEO/AUX input jacks, if the recording level is too high, rotate the controls counterclockwise to adjust the sound level.

HOW TO HANDLE CASSETTE TAPES

Bear in mind the following points before loading cassette tapes.

Is the tape loose, or is some of the tape outside the cassette?

If some of the tape is projecting outside the cassette shell or if it is loose, it may not enter between the capstan and pinch roller. This will prevent the tape from being supplied or damage the tape itself. In cases like these, insert a pencil into the reel hole and take up the slack.

Some cassette tapes come with a plastic or thick paper stopper which prevents tape slack. Remove this stopper when loading the tape and replace it after having used the cassette.

What are the accidental erasure prevention tabs for?

A cassette is provided with these tabs so that important or otherwise valuable recordings will not be erased accidentally. When the tab (Fig. B) on the cassette shell is broken out with the tip of a screwdriver, it will not be possible to activate the recording function even by pressing the recording (REC) switch, so valuable recordings will not be erased in error.

To re-record on a cassette whose tabs have been broken out, simply stick a piece of doubled adhesive tape over the tab areas, as shown in Fig. C.

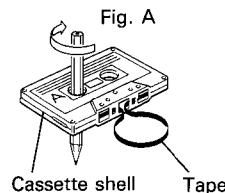
NOTE:

The accidental erasure prevention tabs are located at the top left on both sides A and B (1 or 2), so that material on each side can be prevented from being erased in error.

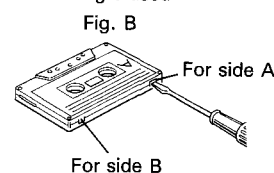
Tips on using cassette tapes

- Leader tape (which does not allow sound to be recorded over it) is provided at the beginning of a cassette tape. Start recording after allowing the tape to run for about 5 seconds so that the leader tape clears the recording head.
- Do not leave a cassette tape exposed to the environment. Store the cassette in its case so that dust and dirt do not adhere to the tape after use, and so that the tape is prevented from becoming slack. Choose a location which is not exposed to the effects of magnetism, dust, dirt and oil for storing the tapes.
- Because C-120 tapes are so thin, they easily jam in the pinch roller and capstan, and they are susceptible to other trouble such as irregular winding. Try not to use them with this unit.

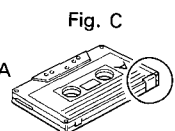
How to take up the tape slack



How to prevent already recorded tapes from being erased



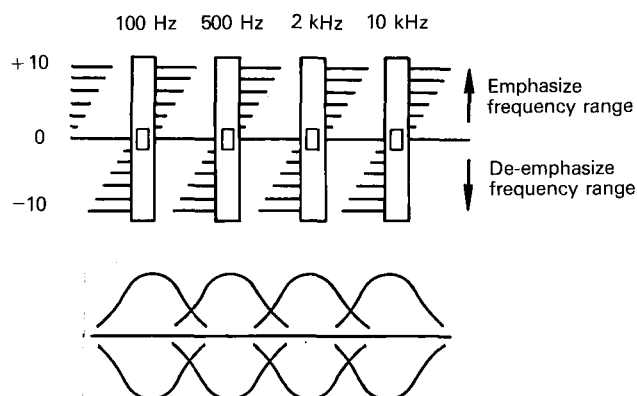
Adhesive tape for re-recording



HOW TO ADJUST THE SOUND QUALITY

The advantage of the graphic equalizer over conventional tone controls is that with the four controls of the graphic equalizer it is possible to control four different narrow, distinct sections of the audio band width by up to ± 10 dB. This corresponds to a power increase of 10 times or a power decrease of 10 times. With conventional tone controls a setting for a bass or treble boost or cut will also affect the lower or upper mid frequencies. The frequency bands controlled by the four slide controls have been chosen to yield the maximum possible control action within the audio spectrum.

- 100 Hz:** The 100 Hz control is very useful for enhancing low bass notes as in the case of organ music.
- 500 Hz:** The 500 Hz control will allow you to vary upper bass frequencies.
- 2 kHz:** The 2 kHz control will add brilliance and clarity to brass instruments and violins.
- 10 kHz:** The 10 kHz control can be used to make up for missing high frequencies absorbed by the environment to add a natural crispness to music.

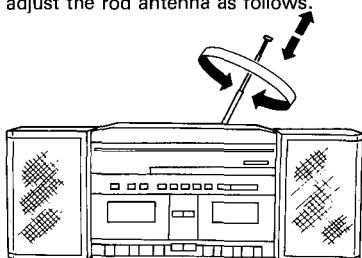


LISTENING TO THE RADIO

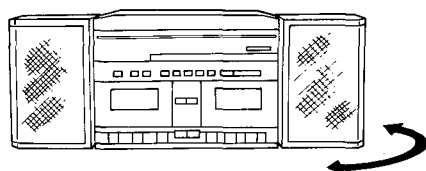
Listening to radio broadcasts

1. Extend the rod antenna and adjust its position for best reception. (This is not necessary for MW reception.)

When listening to FM broadcasts, extend and adjust the rod antenna as follows.



When listening to MW broadcasts, rotate the complete unit for best MW reception.



2. Push the power switch (POWER).
3. Push the TUNER () function selector switch.
4. Select the broadcast band for the station whose program you want to listen to.

Desired broadcast band	Position of switch to be selected
FM reception (MHz)	FM
MW reception (kHz)	MW
SW ₁ reception (MHz) 2.3MHz ~ 6.75MHz	SW ₁
SW ₂ reception (MHz) 6.75MHz ~ 22MHz	SW ₂

5. Observe the tuning scale and use the tuning knob to tune in the frequency of the desired station.

NOTE:

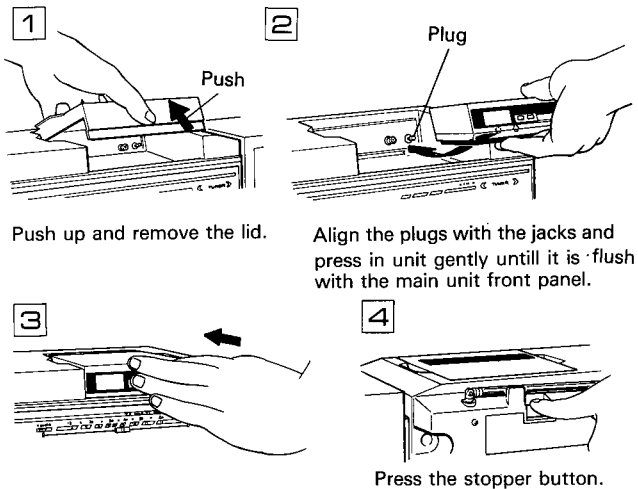
Check the station's frequency in a newspaper or magazine before tuning in.

6. Adjust the volume and tone quality to produce the sound you prefer.

LISTENING TO COMPACT DISCS

Inserting the PD-C7 CD player

Before inserting the PD-C7, be sure that its power switch is ON.

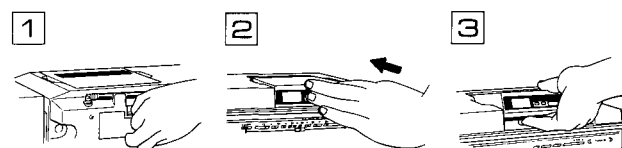


1. Remove the lid from the PD-C7's storage section in the main unit.
2. Align the plug on the main unit with the jack on the PD-C7, and gently press in the unit until it is flush with the main unit front panel.
3. Insert the PD-C7 securely into the storage section.
4. Press in the rear panel CD player stopper button securely.
Be sure the CD player is properly located.

CAUTION:

- Do not install the unit at an angle, and do not subject it to severe impact. The CD player may slip out of its storage section.
- Store the lid safely together with the operating instructions for future use when removing the CD player.

Removing the PD-C7 CD player from the unit.



The procedures for removal are basically the reverse of those for installation.

1. Pull while pressing down the rear panel CD stopper button to return it to its initial position.
2. Press the CD player from the front to move it slightly to the rear.
3. Insert your hands and lift and remove the CD player toward the front.
 - Take care not to exert strong force on the body plug (connected to the CD player jack), since the body plug may break.

The following instructions apply when using the use of the PD-C7 together with the main unit.
For more detailed instructions, refer to the PD-C7 Operating Instructions.

Basic operations

1. Check that the compact disc player's power switch is ON.
2. Press the main unit's power switch to switch on the power.
3. Press the CD function selector switch. The following steps 4–7, 9–12 are for the PD-C7.
4. Press the OPEN switch to open the lid.
5. Place the disc on the disc table.
Hold the edge of the disc and place it gently on the table with its label side facing up.
6. Close the lid.
7. Press the play/pause key (> ||).
The disc will now rotate and play will start from the first track.
8. Adjust the volume and tone.
The compact disc player's headphone volume control will not change even when operated.
9. Play ends.
10. Press the OPEN switch to open the lid.
11. Take out the disc.
When replacing the disc and playing another disc, repeat steps 4 and following.
12. Close the lid.

NOTE:

The PD-C7 will not operate unless the CD function selector switch is pressed.

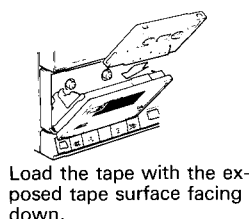
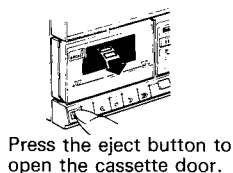
LISTENING TO CASSETTE TAPES

Loading/unloading the cassette tape

The procedure described for deck I is exactly the same for deck II.

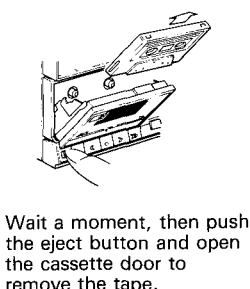
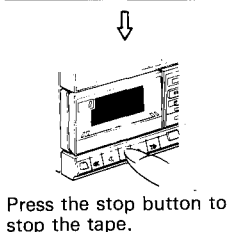
The tape cannot be removed if power is turned off during recording or playback. Turn on the power again and take out the tape when the head section has receded.

Loading the tape



Unloading the tape

Recording and playback operations



Listening to tape play

Tapes can be played back on deck I or II, but they cannot be played back simultaneously on both decks.

1. Press the power switch (POWER).
2. Load the pre-recorded tape.
3. Press the TAPE () function selector switch.
4. Set the Dolby NR switch to the required position.
5. Press the PLAY (> or <) switch corresponding to the deck on which the cassette has been loaded.
6. Press the stop switch (■) to stop the tape.
7. Press the eject button to remove the tape.

When a tape is playing in deck I, if playback begins in deck II, the unit will stop.
When a tape is playing in deck II, if an attempt is made to begin playback in deck I, playback cannot be performed.

NOTE:

Do not press the eject button until the stop switch has been pressed first and the head section has receded completely. If the cassette door comes into contact with the head section, it may not be possible for the door to open and for the tape to be removed. Also, if a power failure occurs during playback, the tape eject function will not operate.

RECORDING ONTO CASSETTE TAPES

Recording is possible only on deck II. Material cannot be recorded on a tape loaded on deck I.

The recording procedure for this unit is given below.
(↻ , ↻)



Recording can be performed with the expander, stereo wide or graphic equalizer sound effects.
During normal recording, set the BALANCE control to the center position. If the switch is rotated to one side or the other, the sound will be recorded unevenly.

1. Press the power switch (POWER).
2. Load the tape for recording onto deck II.
3. Set the Dolby NR switch to the required position.
Tapes recorded with Dolby B noise reduction must be played back with this switch in the ON position.
4. Select and play the program source which is to be recorded.

Program source	Function switch	Operation
Radio broadcast	TUNER	Tune in the station.
Compact disc	CD	Play the compact disc.
Unit connected to VIDEO/AUX terminals	VIDEO/AUX	Operate the unit connected to the VIDEO/AUX terminals.
Tape	TAPE	Operate deck I.

5. Press the REC (●) switch.
The recording indicator will now light up.
6. Press the PLAY (> or <) switch.
7. Press the stop (■) switch to stop the recording.
8. Press the eject button to remove the tape.

Auto-stop mechanism

In order to prevent the tape from being elongated and the pinch rollers from being deformed, this unit automatically releases the tape mechanism to stop the tape when it comes to the end during recording, playback, fast-forwarding or rewinding.

REC MUTE FUNCTION

No-signal recording (REC mute) is possible while input signals are monitored during recording. This function is used to cut out commercials or narration during off-air recording, and to create the unrecorded blanks lasting 4 or more seconds which are required for music search operations. What happens is that the tape continues to travel while the REC mute switch is pressed, but no sound is recorded onto the tape until the switch is released.

Once the switch is released, the recording pause mode is established. To resume recording, simply press the play switch ( or ) on deck II.

NOTE:

If this switch is touched during recording, no signals will be recorded. Do not touch it unless necessary.

MUSIC SEARCH OPERATIONS

The tape is automatically played back, once an unrecorded blank of 4 or more seconds is found between tape programs during fast-forwarding or rewinding.

1. Press the power switch to the ON position.
2. Press the play switch ( or ).
3. To listen to the program following the program you are now listening to, press the fast-forward switch. To listen to the program you are now listening to again, press the rewind switch.

NOTE:

Do not change the tape travel direction during music search. The unit may malfunction or damage may be caused to the tape.

4. The unit will fast-forward or reverse to find the non-recorded interval between programs, and switch automatically to playback.

NOTE:

Music search may not operate properly with the following types of tapes, but this does not mean that there is something wrong with your music system:

- Tapes without unrecorded blanks lasting about 4 seconds between programs.
- When using a tape with a high level of noise between programs.
- Tapes with parts recorded at a low level such as classical music which continue for several seconds, and tapes with programs in which the sound is interrupted for several seconds.
- Tapes on which the sound of conversations or speeches is interrupted from time to time.
- Tapes where an extremely soft sound continues for more than 4 seconds.
- Tapes with passages continuing for 4 or more seconds where the recording level is extremely low.

TAPE COPYING

Duplicating the contents of a pre-recorded tape onto another tape is known as "tape copying." Copying from the tape in deck I to the tape in deck II is possible (but not vice versa). Also, when either of the decks is operating, copying cannot be performed even if the copying switches are pressed.

When copying a tape which was recorded using Dolby B noise reduction, the copied tape will also be recorded automatically with Dolby B.

Copy recording cannot be performed with the expander, stereo wide or graphic equalizer sound effects.

COPYING WHILE LISTENING TO THE TAPE

1. Press the power switch to the ON position.
2. Load the pre-recorded tape into deck I and the copying tape into deck II.
3. Select the reverse mode switch position.

Reverse mode switch	Operation
 (single-sided recording/playback)	Single-sided copying from deck I to deck II
 (double-sided recording/playback)	Double-sided copying from deck I to deck II
 (repeat/both sides)	The same as for double-sided recording/playback

4. Press the TAPE () function selector switch.
The position of the function selector switch does not affect tape copying. The function selector switch can be used to listen to another program source during tape copying.
5. Press the NORMAL copying switch.
 - Deck I begins to play back, and Deck II starts to record.
 - The auto-stop function will operate when the tape comes to its end in the reverse mode.
6. To stop recording midway, press either of the stop switches.

HIGH-SPEED (REDUCED TIME) COPYING

1. Press the power switch to the ON position.
2. Load the pre-recorded tape into deck I and the tape for copying into deck II.
3. Select the reverse mode switch position. The operation is the same as mentioned in the section "copying while listening to the tape".
4. Press the HIGH SPEED copying switch.

NOTE:

The tape is now copied regardless of the function selector switches. The sound of the program source selected by the selector switch is heard through the speakers.

The auto-stop function will operate when the tape comes to its end in the reverse mode.

5. To stop recording midway, press either of the stop switches.

CONTINUOUS PLAYBACK (DECK I → DECK II)

When deck I stops automatically at the tape-end in the reverse mode, deck II automatically begins playback in the forward mode. Continuous playback from deck II to deck I is not possible.

1. Press the power switch to the ON position.
2. Load the tape to be played back into decks I and II.
3. Select the reverse mode switch position.

Reverse mode switch	Operation
 (single-sided playback)	Deck I single-sided playback → deck II single-sided playback → stop
 (double-sided playback)	Deck I double-sided playback → deck II double-sided playback → stop
 (repeat playback)	The same as for double-sided playback

4. Press the RELAY PLAY switch.
5. Press the deck I PLAY switch ( or ).
 - Deck I will begin playback. When the tape comes to its end, the auto stop function will operate, and deck II will begin playback.

- When the tape in deck II comes to its end, the auto stop function will operate.

6. To stop continuous playback midway, press the STOP switch.

Questions (Q) and answers (A) on recording

Q: How do I adjust the recording level?

A: Your unit contains an automatic level control, so there is no need for you to adjust the recording level.

Q: What happens when a tape is recorded without any sound source being played?

A: This is known as no-signal recording. However, because of the unit's automatic level control, a hissing noise will be heard on the tape. To eliminate this noise, it is recommended that the REC MUTE function be used.

Q: What happens when recording is performed with the graphic equalizer, stereo wide and expander functions adjusted?

A: The recording will be performed with the same sound effects as are heard from your speakers. However, sound effects cannot be added when copying tapes with the copying switches.

MIC MIXING**Mixing in a nutshell**

Mixing is creating a new sound by combining the signals of one sound with the signals of another sound. A typical example of this is singing along to pre-recorded accompaniment ("karaoke").

1. Plug the microphone into the MIC jack.
2. Press the power switch to turn on the power.
3. Turn up the volume to the desired level.
4. Set the mic mixing knob to its center position.

Carry out one of the steps below if "howl" (a prolonged wailing sound) is heard.

 - (1) Place the microphone as far away from the unit as possible.
 - (2) Turn down the volume.

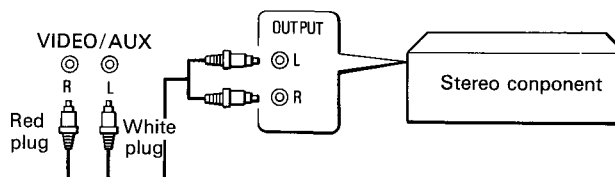
5. Use the function selector switches to choose the program source to be used for the background.
6. Begin playback of the program source.
7. Adjust the overall sound volume.
8. Use the mic mixing knob to adjust the ratio of sound volume between the microphone and the program source.
9. Sing along with the program source music.

By using this mixing function, the MIC and SOURCE signals will be varied together when the volume control is operated. The volume control can thus be used as a manual fader. Use this function during recording.

* A fader is a control which gradually increases the sound until it is audible, or gradually decreases it until it is inaudible.

PLAYING THE COMPONENT CONNECTED TO THE VIDEO/AUX TERMINALS

1. Press the **POWER** switch to turn on the power. Also turn on the power to other components to be used.
2. Press the selector switch **VIDEO/AUX** ().
3. Operate the stereo component.
For details, consult the operating instructions of the stereo component to be used.
4. Adjust the sound volume and tone.



MAINTENANCE

CLEANING THE HEAD SECTION

The heads, capstan and pinch roller are parts which are liable to get dirty quite easily. In particular, if the heads are dirty, the high frequency components of the sound will not be reproduced and the stereo balance will be impaired, resulting in a deterioration in sound quality. It is therefore recommended that the head section be cleaned regularly.

1. Push the **EJECT** button to open the cassette door.
2. Press the **POWER** switch to the **ON** position.
3. Lift the tape detector switch.
4. Press the **PLAY** ( or ) switch to raise the head section.
5. Dip a cleaning swab into head cleaning fluid and use it to wipe the heads, capstan, and pinch roller.

DEMAGNETIZING THE HEAD

The recording/playback head becomes magnetized when you use the tape deck for prolonged periods of time. This results in noise being generated and the treble dropping off during recording and playback. The recording/playback head should therefore be demagnetized regularly with a head demagnetizer (sold separately).

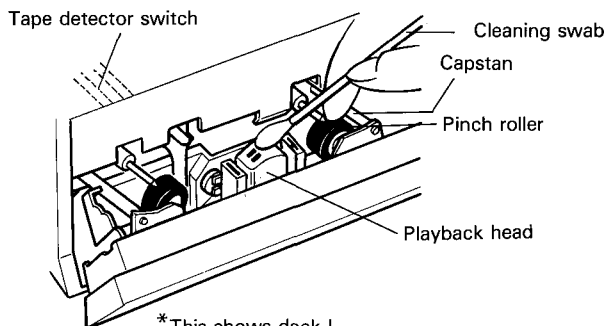
For further details, refer to the operating instructions accompanying your head demagnetizer.

NOTE:

- Do not hold screwdrivers, metal objects or magnets close to the heads.
- When demagnetizing the heads, be sure the unit's **POWER** switch is in the **OFF** position.

CLEANING THE UNIT

Wipe the front panel and the cassette door when dusty or greasy with a soft cloth containing a small amount of ordinary clean up liquid. Then wipe dry with a cloth. Never use volatile spirits like thinners, benzine or alcohol, as they will damage the panel's finish.



EXTERNAL ANTENNA

External MW antenna

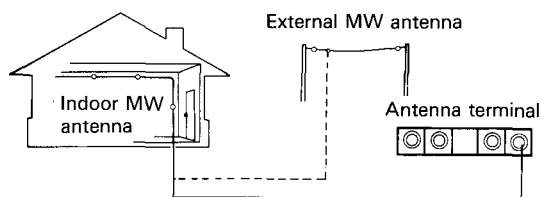
Indoor MW antenna

Provide a vinyl-coated wire (5 to 6 meters long). Secure one end to the AM terminal and the other end to a wall or other high location.

External MW antenna

If reception is still poor even when a lead antenna has been stretched out indoors, stretch out a vinyl-coated wire and secure it outdoors.

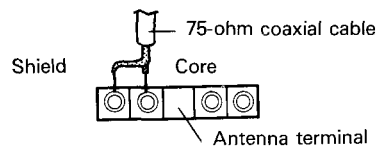
Connecting the external MW antenna



External FM and SW antennas

If reception is still poor even with the rod antenna, it may mean that your home is not well situated for signal reception. Erect an antenna outdoors.

Connecting the antenna may be done with 75-ohm coaxial cable.



TROUBLESHOOTING

If you believe that something has gone wrong with your unit, check the points below first. Sometimes errors in operation can be mistaken for trouble. If the problem is not solved even after checking out the points, contact your nearest authorized PIONEER Service Center.

Symptoms common to all units

Symptom	Trouble	Remedy
No power even when the power switch is set to ON.	• Disconnected power plug. • Power indicator flickers weakly. • No batteries in battery compartment.	• Re-connect the power plug properly. • Replace batteries. • Insert batteries.
No sound from the speakers.	• Volume control at the leftmost (minimum) position. • Disconnected speaker cord. • Function selector switch is not set to its proper position. • Mic mixing knob is at the MIC position.	• Slide the volume control to the right. • Re-connect the speaker cord properly. • Select the proper function switch. • Set it to SOURCE.
Sound from one side only.	• One of the speaker cords has become disconnected. • Balance control is rotated to one side or the other.	• Re-connect it properly to the speaker terminal. • Set it to the center position.
Loud wailing sound heard during mic mixing.	• Microphone is pointed in the wrong direction. • Microphone is too close to the speakers. • Volume is too high.	• Change its direction. • Place it at a distance from the speakers. • Turn down the volume.

Symptoms with tape playback

No tape travel.	• Deck is in the pause mode. • Cassette tape is not loaded properly. • Deck I cannot be set to playback while deck II is playing.	• Press the pause switch. • Load the tape properly into the cassette holder. • Stop Deck II.
No tape sound.	• Function selector switch is at a position other than TAPE. • Blank tape is being used.	• Press the TAPE selector switch. • Replace it with a pre-recorded tape.
No recording.	• Tape is loaded in deck I.	• Record on deck II.
No normal speed copying (another sound source is recorded instead).	• Function selector switch is at a position other than TAPE while deck I is set to playback and deck II is set to recording.	• Press the TAPE selector switch. • Use the NORMAL copying switch.
No treble.	• Dirty head section. • Tape which was not recorded using the Dolby B noise reduction system is being played back using the Dolby B system.	• Clean the head section. • Play back using the same system as that of the recording (do not play back tapes recorded by other systems).
Emphasized treble.	• Tape which was recorded with the Dolby B system is being played back with the Dolby NR switch in the OFF position.	• Play back using the same system as that of the recording (do not play back tapes recorded by other systems).

Symptoms with MW reception

No MW reception.	• Band selector switch is not set to MW. • Station has not been tuned in properly.	• Set it to the MW position. • Rotate the tuning knob to tune in the station.
Crackling sounds heard.	• TV set is being used at same time.	• Turn off the TV, or place the music system at a distance from the TV set.
Hissing sounds heard.	• Electrical device or appliance (fluorescent light, hair drier, etc.) is being used.	• Stop operating the device or appliance which is causing the noise.
Distorted sound.	• Weak signals from the broadcast station.	• Install and connect an external MW antenna.

TROUBLESHOOTING

Symptoms with FM reception

No FM reception.	• Band selector switch has not been set to the proper position.	• Set to the correct position.
Hissing sounds heard.	• Broadcast station's channel or frequency has not been tuned in properly.	• Use the tuning knob to tune in the proper channel or frequency.
Distorted sound.	• Rod antenna is pointing in the wrong direction. • Weak signals from the broadcast station. • Noise from other equipment (especially from passing motorbikes) or multipath distortion is generated.	• Change the antenna position so that the sound is not distorted. • Replace the built-in antenna with an external antenna. • Try changing the position of the rod antenna. When an external antenna is used, install it at a distance from the street or road and replace the connecting cable with a 75-ohm coaxial cable.

Symptoms with compact disc play

Play does not start.	• Function selector switch is not at CD. • The power switch of the PD-C7 is set to OFF.	• Press the CD selector switch. • Set power switch to ON.
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Symptoms with SW reception

Can't listen to SW broadcasts.	• Band selector switch not set to SW. • Rod antenna is pointing in the wrong direction.	• Set it to the correct position. • Adjust antenna direction.
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SPECIFICATIONS

Tuner Section

Frequency Range	
FM	87.5 MHz — 108 MHz
MW	530 kHz — 1,600 kHz
SW ₁	2.3 MHz — 6.75 MHz
SW ₂	6.75 MHz — 22 MHz

Antennas

FM/SW ₁ /SW ₂	Rod antenna
MW	Ferrite bar antenna

Deck Section

Track System	4-Track, 2-Channel Stereo
Wow and Flutter	0.06% WRMS
Fast forward time	90 sec. (C-60 tape)

Frequency response

Metal tape	40 Hz — 16,000 Hz $\pm \frac{3}{2}$ dB
Normal tape	40 Hz — 14,000 Hz $\pm \frac{3}{2}$ dB

General

Input terminals

VIDEO/AUX	150 mV
MIC	1 mV
Output power	200 W (PMPO) 15 W + 15 W (10% T.H.D)

Graphic equalizer frequency band	100 Hz, 500 Hz, 2 kHz, 10 kHz, ± 10 dB
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Power source

DC	12 V, "UM-1" (D) x 8 12 V car battery (optional cord)
AC	120/220/240 V, 50/60 Hz (switchable)

Power consumption	60 W
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Dimensions	320 (W) x 238 (H) x 207 (D) mm
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Weight	8.55 kg (with speakers)
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Speaker Section

Hermetically sealed bookshelf type

Speaker type 2 x 10 cm square speakers
with woofer and round 2 cm tweeter

Impedance 4 Ω

Dimensions 150.5 (W) x 227 (H) x 168 (D) mm

Accessories

Handle	1
Operating Instructions	1

NOTE:

- Specifications and design subject to possible modification without notice due to improvements.

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